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## Claims

## I claim:

A process that includes searching the digital data for detection criteria and adjusting neighboring point(s), whereby the digital data is degraded in quality but the original signal is recoverable.

- 2. The process of claim 1 in which the detection criteria involves a pseudo-random sequence, thereby increasing the difficulty to illegally removing the content degradation.
- 3. The process of claim 1 in which the adjustment of neighboring point(s) involves a pseudo-random sequence, thereby increasing the difficulty to illegally removing the content degradation.
- 4. The process in claim 1 in which the detection criteria includes a threshold crossing, thereby the degradation process is simple and efficient.
  - The process in claim 4 in which the value of the threshold is a pseudo-random sequence, thereby increasing the difficulty of illegally recovering the original signal.
  - 6. The process in claim 4 in which adjustment of neighboring points includes scaling the point after the threshold crossing, whereby the degradation process is simple and efficient.
    - 7. The process of claim 6 in which the scaling value is a pseudo-random sequence, whereby increasing the difficulty of illegally recovering the original signal.
- 30 8. The process in claim 1 in which every Mth point is degraded in quality.
  - 9. The process in claim 1 in which the content is recovered with a filter that removes most of the content degraded.

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	ηe	igl	hboı	cing	point	(s) v	vhere	oy t	he	orig	inal	digi	ta.
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- 11. The process of claim 10 in which the detection criteria involves a pseudo-random sequence, thereby increasing the difficulty to illegally removing the content degradation.
- 12. The process of claim 10 in which the adjustment of neighboring point(s) involves a pseudo-random sequence, thereby increasing the difficulty to illegally removing the content degradation.
- 13. The process in claim 10 in which the detection criteria includes a threshold crossing whereby the recovery process is simple and efficient.
  - 14. The process in claim 13 in which adjustment of neighboring points includes re-scaling the point after the threshold crossing by the inverse of the scaling value used in degradation, whereby the recovery process is simple and efficient.
- 15. The process in claim 10 in which every Mth point is recovered from the degraded digital data.
- 16. An apparatus consisting of a logic processor and storage unit with a means to implement the efficient and self-synchronizing degradation or recovery process, whereby the apparatus is inexpensive.
  - 17. The apparatus of claim 16 in which the logic processor is a digital processor.
    - 18. The apparatus of claim 17 in which the memory unit is digital random access memory (RAM).
  - 19. The apparatus of claim 16 consisting of a combination of custom digital and analog

circulitry.

The apparatus claim 16 which implements a 20. hat removes most of the degraded content.

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